



# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)  
JANUARY 2007

WBAN # 53868

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			
01													01												01	T	T	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04													04												04	0.09	0.09	
05	0.07	0.01	0.07	0.01	T	T					0.11	T	05		T	T									05	0.27	0.27	
06													06												06	0.00	0.00	
07													07	0.21	0.05		T	0.42	0.07	0.10	0.01		T	07	1.10	1.10		
08													08												08	T	T	
09													09		0.03										09	0.07	0.07	
10													10		0.01										10	0.00	0.00	
11													11												11	0.00	0.00	
12													12												12	0.00	0.00	
13													13												13	0.00	0.00	
14													14												14	0.00	0.00	
15													15	T	0.06	0.15	0.01	0.04	0.05	0.04	0.03	0.03	0.06	0.04	T	15	0.51	0.51
16													16												16	0.00	0.00	
17													17												17	0.00	0.00	
18													18	0.01		0.01									18	0.02	0.02	
19													19												19	0.00	0.00	
20													20												20	0.00	0.00	
21													21	0.09	0.15	0.24	0.12	0.05		T					21	0.87	0.87	
22													22												22	0.00	0.00	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26													26												26	0.00	0.00	
27													27												27	0.00	0.00	
28													28												28	T	T	
29													29												29	0.00	0.00	
30													30												30	0.00	0.00	
31													31												31	0.00	0.00	

\* Indicates sum of Hourly and Daily disagree.

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	0.10	0.17	0.21	0.25	0.32	0.39	0.43	0.48	0.49	0.49	0.56	0.59
Ending Date	07	07	07	07	07	07	07	07	07	07	07	07
Ending Time (Hr/Min)	1220	1627	1627	1627	1645	1652	1702	1727	1748	1748	1838	1857

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

Date and time are not entered for TRACE amounts.

# REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

\* = Extreme for the month (last occurrence if more than one).

T = Trace precipitation amount.

+ = also occurs on earlier date.

FG+ = Heavy fog, visibility .25 miles or less.

BLANK entries denote missing or unreported data.

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

NORMALS ARE FOR THE YEARS 1971-2000

## WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
DESCRIPTOR	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well-Developed Dust/Sand Whirls
MI Shallow	PL Ice Pellets	HZ Haze	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	GL Glaze
VC In the Vicinity	UP Unkown Precipitation		

Intensity (as indicated on pages 4 to 6):  
'+' = Heavy    '' = Moderate    '-' = Light

# OAK RIDGE, TN JANUARY 2007

Ceilometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR-SS), or midnight to midnight (MN-MN).

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0-2 oktas, Partly Cloudy = 3-6 oktas, Cloudy = 7-8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

### ADDITIONAL NOTES:

Station Augmentation-OAK RIDGE ATDD COOP  
Lat/Lon:36.00278/-84.24861 Elevation:905FT  
Distance:1.5 MI Dir:SW  
Augmented Elements:Temp,Precip,Snow  
Equipment:Pcpn-Model TRP525M, Temp Vaisala HMP35C,  
Snow Board, Snow Stick

Date	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							10.00	10.00	
02							10.00	10.00	
03							0.25	10.00	
04							3.00	10.00	
05							0.75	10.00	
06							4.00	10.00	
07							1.25	10.00	
08							10.00	10.00	
09							0.25	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							0.75	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							2.50	10.00	
19							3.00	10.00	
20							10.00	10.00	
21							2.00	10.00	
22							2.00	10.00	
23							10.00	10.00	
24							0.25	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							5.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							10.00	10.00	
MONTHLY AVGS							6.61	10.00	
<b>SUNSHINE (Minutes)</b>									
Total :					Possible :				
Percent Possible :									
<b>NUMBER OF DAYS WITH :</b>									
SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
<b>MINIMUM VISIBILITY (MILES)</b>									
<= .25		<= 3.0			>= 7.0				
3		11			18				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

JANUARY 2007

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION				SEA LEVEL	Observation Time (LST)			Eff Cld Amt Oktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
		SUNRISE: 0747		JAN 01		SUNSET: 1733																							
01	CLR	NC			10.00		51	45	48	80	3	21	29.01	29.99	01	OVC	038			10.00		50	46	48	86	0	00	29.18	30.16
04	CLR	NC			10.00		46	43	45	89	3	VR	29.02	29.99	04	OVC	036			10.00		50	45	48	83	0	00	29.19	30.16
07	CLR	NC			10.00		43	40	42	89	3	23	29.03	30.00	07	CLR	NC			6.00	BR	45	43	44	93	3	03	29.14	30.13
10	CLR	NC			10.00		49	41	45	74	9	24	29.04	30.01	10	BKN	110			10.00		50	45	48	83	0	00	29.10	30.07
13	OVC	044			10.00		48	35	42	61	6	VR	29.06	30.03	13	OVC	042			2.00	-RA	50	48	49	93	3	12	28.97	29.94
16	OVC	039			10.00		44	32	39	63	11	28	29.13	30.12	16	OVC	022			5.00	BR	53	51	52	93	0	00	28.88	29.85
19	OVC	033			10.00		40	29	36	65	6	30	29.24	30.24	19	OVC	007			5.00	RA	56	55	55	96	3	VR	28.89	29.87
22	OVC	036			10.00		39	27	34	62	5	36	29.32	30.32	22	CLR	NC			10.00		56	52	54	87	5	VR	28.87	29.84
		SUNRISE: 0747		JAN 02		SUNSET: 1734																							
01	OVC	029			10.00		38	28	34	67	0	00	29.36	30.36	01	OVC	033			10.00		54	48	51	80	6	24	28.88	29.85
04	OVC	027			10.00		38	28	34	67	8	36	29.39	30.40	04	OVC	065			10.00		47	32	40	56	5	VR	28.99	29.97
07	OVC	027			10.00		38	28	34	67	6	04	29.42	30.43	07	BKN	065			10.00		44	35	40	71	3	VR	29.06	30.04
10	OVC	025			10.00		39	29	35	67	7	03	29.47	30.49	10	CLR	NC			10.00		42	28	36	58	7	VR	29.13	30.12
13	CLR	NC			10.00		45	29	38	54	7	02	29.42	30.43	13	CLR	NC			10.00		44	19	35	37	7	VR	29.13	30.11
16	CLR	NC			10.00		50	30	41	46	5	04	29.41	30.41	16	CLR	NC			10.00		46	12	34	25	7	27	29.13	30.11
19	CLR	NC			10.00		40	31	36	70	0	00	29.41	30.42	19	CLR	NC			10.00		39	17	31	41	0	00	29.15	30.15
22	CLR	NC			10.00		34	28	32	79	0	00	29.42	30.44	22	CLR	NC			10.00		34	17	28	50	0	00	29.14	30.16
		SUNRISE: 0747		JAN 03		SUNSET: 1735																							
01	CLR	NC			10.00		30	27	29	89	0	00	29.40	30.42	01	CLR	NC			10.00		32	21	28	64	5	22	29.13	30.14
04	OVC	006			0.25	FZFG	29	27	28	92	0	00	29.42	30.43	04	CLR	NC			10.00		29	21	26	72	0	00	29.12	30.12
07	VV	001			0.25	FZFG	27	26	27	96	0	00	29.44	30.47	07	CLR	NC			10.00		30	22	27	72	3	24	29.07	30.08
10	VV	001			0.25	FZFG	31	29	30	92	0	00	29.48	30.51	10	BKN	034			9.00	-SN	34	31	33	89	7	VR	29.10	30.12
13	CLR	NC			10.00		48	31	41	52	7	VR	29.40	30.42	13	BKN	070			10.00		43	29	37	58	10	27	29.13	30.13
16	CLR	NC			10.00		54	32	44	43	5	25	29.34	30.34	16	CLR	NC			10.00		43	24	36	47	10	30	29.18	30.20
19	CLR	NC			10.00		44	33	39	65	0	00	29.31	30.33	19	FEW	070			10.00		39	23	33	53	6	VR	29.28	30.29
22	CLR	NC			10.00		38	32	36	79	0	00	29.32	30.34	22	BKN	060			10.00		37	20	31	50	8	34	29.36	30.37
		SUNRISE: 0747		JAN 04		SUNSET: 1736																							
01	CLR	NC			10.00		39	34	37	82	3	22	29.30	30.30	01	FEW	045			10.00		35	19	29	52	8	34	29.37	30.38
04	CLR	NC			10.00		35	33	34	92	0	00	29.28	30.28	04	CLR	NC			10.00		29	19	26	66	3	20	29.40	30.42
07	FEW	030			9.00		34	31	33	89	0	00	29.29	30.30	07	CLR	NC			10.00		25	18	23	75	0	00	29.44	30.47
10	CLR	NC			10.00		43	36	40	76	0	00	29.27	30.28	10	CLR	NC			10.00		34	17	28	50	0	00	29.49	30.51
13	CLR	NC			10.00		57	42	49	57	0	00	29.16	30.15	13	CLR	NC			10.00		40	13	31	33	5	VR	29.47	30.48
16	BKN	095			10.00		59	44	51	58	0	00	29.10	30.09	16	CLR	NC			10.00		43	13	33	29	0	00	29.46	30.48
19	OVC	090			10.00		55	42	49	62	0	00	29.10	30.09	19	CLR	NC			10.00		34	18	29	52	0	00	29.47	30.50
22	OVC	090			10.00	-RA	52	46	49	80	0	00	29.06	30.04	22	CLR	NC			10.00		30	20	27	66	0	00	29.46	30.49
		SUNRISE: 0747		JAN 05		SUNSET: 1736																							
01	OVC	026			5.00	RA BR	50	47	48	90	0	00	29.02	29.99	01	CLR	NC			10.00		26	20	24	78	0	00	29.45	30.48
04	OVC	005			4.00	-RA BR	50	48	49	93	0	00	29.00	29.96	04	CLR	NC			10.00		24	19	22	81	0	00	29.47	30.50
07	OVC	003			4.00	BR	50	48	49	93	0	00	28.96	29.93	07	CLR	NC			10.00		24	20	23	85	0	00	29.49	30.53
10	OVC	038			4.00	BR	52	50	51	93	3	08	28.94	29.92	10	CLR	NC			10.00		33	21	29	61	3	21	29.52	30.55
13	CLR	NC			8.00		61	57	59	87	0	00	28.84	29.80	13	CLR	NC			10.00		46	18	36	33	3	26	29.45	30.47
16	FEW	055			10.00		68	53	59	59	8	23	28.80	29.76	16	CLR	NC			10.00		51	20	39	29	5	VR	29.39	30.41
19	BKN	120			10.00		62	53	57	73	6	VR	28.86	29.82	19	CLR	NC			10.00		50	26	40	39	7	23	29.40	30.42
22	CLR	NC			10.00		57	53	55	87	3	VR	28.90	29.86	22	CLR	NC			10.00		50	30	41	46	10	22	29.42	30.42
		SUNRISE: 0747		JAN 06		SUNSET: 1737																							
01	OVC	045			10.00		57	51	54	80	6	VR	28.93	29.89	01	BKN	043			10.00		49	31	41	50	7	26	29.44	30.43
04	BKN	039			10.00		53	50	51	90	0	00	28.99	29.94	04	SCT	110			10.00		47	31	40	54	3	VR	29.42	30.41
07	OVC	049			5.00	BR	50	48	49	93	3	VR	29.04	30.01	07	OVC	060			10.00		48	32	41	54	5	VR	29.48	30.47
10	BKN	055			9.00		53	49	51	86	0	00	29.09	30.06	10	OVC	030			10.00		50	35	43	57	3	21	29.49	30.49
13	FEW	033			10.00		62	49	55	63	5	VR	29.05	30.01	13	BKN	048			10.00		55	39	47	55	6	VR	29.46	30.45
16	OVC	048			10.00		63	49	55	60	3	VR	29.08	30.04	16	CLR	NC			10.00		57	43	50	60	3	VR	29.42	30.40
19	BKN	050			10.00		57	46	51	67	0	00	29.13	30.11	19	CLR	NC			10.00		53	43	48	69	0	00	29.43	30.42
22	OVC	048			10.00		51	47	49	86	0	00	29.18	30.16	22	CLR	NC			10.00		49	43	46	80	0	00	29.42	30.41

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

JANUARY 2007

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)																
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL															
															Observation Time (LST)	Eff Cld Amt Oktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL					
SUNRISE: 0746							JAN 13							SUNSET: 1744															
01	CLR	NC			10.00		45	41	43	86	0	00	29.39	30.38	01	OVC	004			3.00	BR	38	36	37	93	6	21	29.24	30.25
04	CLR	NC			10.00		49	43	46	80	5	22	29.36	30.34	04	SCT	034			5.00	BR	38	36	37	93	3	VR	29.24	30.26
07	CLR	NC			10.00		50	45	48	83	7	22	29.38	30.36	07	BKN	037			10.00		37	28	33	70	5	VR	29.29	30.31
10	FEW	085			10.00		57	48	52	72	6	VR	29.39	30.37	10	CLR	NC			10.00		37	23	32	57	6	VR	29.35	30.36
13	OVC	044			10.00		62	49	55	63	9	26	29.34	30.32	13	CLR	NC			10.00		44	24	36	45	8	21	29.30	30.31
16	OVC	075			10.00		66	51	58	59	6	22	29.28	30.25	16	CLR	NC			10.00		46	15	35	29	9	35	29.28	30.28
19	OVC	070			10.00		64	51	57	63	3	VR	29.30	30.27	19	CLR	NC			10.00		38	18	31	44	0	00	29.33	30.35
22	OVC	075			10.00		63	51	56	65	3	VR	29.30	30.27	22	CLR	NC			10.00		30	21	27	69	0	00	29.34	30.37
SUNRISE: 0746							JAN 14							SUNSET: 1745															
01	BKN	050			10.00		58	50	54	75	3	26	29.29	30.26	01	CLR	NC			10.00		29	21	26	72	0	00	29.35	30.37
04	BKN	050			10.00		56	50	53	80	3	VR	29.29	30.25	04	CLR	NC			10.00		28	21	26	75	0	00	29.37	30.39
07	OVC	050			10.00		57	50	53	78	3	23	29.30	30.27	07	CLR	NC			10.00		27	21	25	78	0	00	29.36	30.39
10	CLR	NC			10.00		60	51	55	72	5	23	29.32	30.28	10	CLR	NC			10.00		34	21	29	59	7	06	29.41	30.44
13	SCT	043			10.00		70	50	59	49	14	21	29.24	30.20	13	CLR	NC			10.00		41	18	33	40	5	07	29.36	30.38
16	CLR	NC			10.00		69	49	58	49	8	25	29.19	30.15	16	CLR	NC			10.00		43	14	33	31	5	VR	29.31	30.33
19	CLR	NC			10.00		65	50	57	59	0	00	29.21	30.18	19	CLR	NC			10.00		39	20	32	46	0	00	29.31	30.34
22	BKN	055			10.00		63	49	55	60	5	20	29.19	30.16	22	OVC	110			10.00		38	24	33	57	0	00	29.29	30.31
SUNRISE: 0746							JAN 15							SUNSET: 1746															
01	BKN	055			10.00		62	50	55	65	5	VR	29.16	30.11	01	OVC	080			10.00		38	23	32	55	3	03	29.24	30.25
04	OVC	048			10.00		59	49	54	70	0	00	29.12	30.07	04	OVC	090			10.00	-RA	38	26	33	62	0	00	29.20	30.21
07	BKN	035			10.00		59	52	55	78	5	27	29.12	30.08	07	BKN	050			10.00		36	30	34	79	3	03	29.16	30.17
10	OVC	060			10.00		62	55	58	78	6	26	29.12	30.07	10	OVC	050			9.00	-RA	36	31	34	82	0	00	29.18	30.19
13	OVC	031			7.00	-RA	63	54	58	73	9	22	29.08	30.03	13	OVC	040			4.00	-RA BR	37	35	36	93	0	00	29.10	30.10
16	OVC	065			10.00	-RA	57	54	55	90	5	19	29.07	30.03	16	OVC	014			3.00	RA BR	39	38	39	96	0	00	29.04	30.04
19	OVC	095			10.00	-RA	56	54	55	93	3	22	29.10	30.06	19	OVC	013			8.00		39	38	39	96	3	27	29.05	30.06
22	OVC	060			7.00	-RA	56	54	55	93	5	21	29.09	30.04	22	OVC	004			9.00		41	39	40	93	0	00	29.05	30.04
SUNRISE: 0746							JAN 16							SUNSET: 1747															
01	OVC	035			10.00		47	43	45	86	3	23	29.14	30.12	01	OVC	004			5.00	BR	42	40	41	93	0	00	29.02	30.01
04	OVC	047			10.00		43	36	40	76	5	VR	29.19	30.18	04	OVC	004			5.00	BR	43	41	42	93	3	VR	29.02	30.01
07	OVC	020			10.00		39	31	36	73	5	35	29.28	30.27	07	OVC	004			4.00	BR	43	42	43	96	3	VR	29.02	30.02
10	OVC	024			10.00		36	27	33	70	6	VR	29.34	30.34	10	OVC	032			10.00		45	40	43	83	3	22	29.05	30.04
13	OVC	022			10.00		35	25	31	67	8	36	29.38	30.39	13	OVC	031			10.00		45	38	42	77	8	25	29.04	30.03
16	OVC	027			10.00		33	22	29	64	9	34	29.41	30.42	16	OVC	033			10.00		43	34	39	71	9	26	29.03	30.02
19	OVC	029			10.00		32	20	28	61	8	34	29.50	30.53	19	OVC	034			10.00		41	29	36	62	3	VR	29.07	30.06
22	OVC	031			10.00		29	20	26	69	8	03	29.56	30.60	22	OVC	032			10.00		37	27	33	67	7	VR	29.12	30.11
SUNRISE: 0745							JAN 17							SUNSET: 1748															
01	OVC	031			10.00		30	18	26	61	8	01	29.59	30.63	01	OVC	032			10.00		37	25	32	62	5	28	29.10	30.10
04	OVC	037			10.00		29	17	25	61	7	02	29.58	30.62	04	BKN	034			10.00		35	25	31	67	3	VR	29.10	30.10
07	CLR	NC			10.00		28	16	24	61	5	03	29.62	30.66	07	OVC	033			10.00		34	24	30	67	5	26	29.13	30.14
10	CLR	NC			10.00		31	18	27	59	8	04	29.66	30.70	10	OVC	033			10.00		34	23	30	64	7	28	29.17	30.19
13	CLR	NC			10.00		36	17	30	46	7	VR	29.60	30.64	13	BKN	027			10.00		37	24	32	59	8	21	29.15	30.16
16	CLR	NC			10.00		38	16	30	41	7	09	29.55	30.58	16	CLR	NC			10.00		37	24	32	59	7	21	29.10	30.11
19	CLR	NC			10.00		36	17	30	46	5	08	29.55	30.60	19	CLR	NC			10.00		35	25	31	67	0	00	29.10	30.12
22	CLR	NC			10.00		34	20	29	57	0	00	29.50	30.54	22	CLR	NC			10.00		31	24	28	75	0	00	29.13	30.15
SUNRISE: 0745							JAN 18							SUNSET: 1749															
01	BKN	120			10.00		35	21	30	57	0	00	29.48	30.50	01	CLR	NC			10.00		28	24	27	85	0	00	29.12	30.14
04	OVC	065			10.00		35	23	31	62	0	00	29.46	30.48	04	CLR	NC			9.00		27	23	26	85	0	00	29.10	30.12
07	OVC	090			10.00		36	23	31	59	0	00	29.47	30.49	07	CLR	NC			7.00		24	21	23	88	0	00	29.15	30.18
10	OVC	021			10.00		36	26	32	67	5	26	29.46	30.48	10	CLR	NC			6.00	BR	30	27	29	89	0	00	29.17	30.20
13	OVC	008			4.00	BR	36	32	34	85	5	VR	29.40	30.42	13	CLR	NC			10.00		42	27	36	55	6	21	29.15	30.17
16	OVC	008			10.00		37	33	35	86	7	21	29.32	30.34	16	CLR	NC			10.00		46	26	38	46	6	21	29.12	30.12
19	OVC	006			10.00		37	34	36	89	7	VR	29.28	30.29	19	CLR	NC			10.00		41	28	36	60	0	00	29.12	30.14
22	OVC	004			6.00	BR	37	35	36	93	3	VR	29.26	30.28	22	CLR	NC			10.00		33	26	30	75	0	00	29.15	30.18

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

JANUARY 2007

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)						
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL			
															Observation Time (LST)	Eff Cld Amt Oktas	
<b>SUNRISE: 0741</b>						<b>JAN 25</b>						<b>SUNSET: 1756</b>					
01	CLR	NC			10.00	31	25	29	78	0	00	29.16	30.17				
04	OVC	050			10.00	31	27	30	85	0	00	29.15	30.16				
07	OVC	046			10.00	33	27	31	79	5	21	29.15	30.16				
10	OVC	039			10.00	35	26	32	70	0	00	29.18	30.20				
13	BKN	049			10.00	39	18	32	43	8	31	29.18	30.20				
16	FEW	060			10.00	41	14	32	33	6	VR	29.17	30.19				
19	CLR	NC			10.00	35	14	28	42	5	32	29.22	30.24				
22	CLR	NC			10.00	30	16	25	56	3	04	29.28	30.30				
<b>SUNRISE: 0741</b>						<b>JAN 26</b>						<b>SUNSET: 1757</b>					
01	CLR	NC			10.00	29	14	24	53	0	00	29.28	30.30				
04	CLR	NC			10.00	24	16	22	71	3	26	29.26	30.29				
07	CLR	NC			10.00	21	16	20	81	0	00	29.27	30.30				
10	CLR	NC			10.00	29	15	25	56	7	24	29.29	30.32				
13	CLR	NC			10.00	40	15	31	36	6	VR	29.22	30.24				
16	CLR	NC			10.00	46	15	35	29	7	19	29.16	30.17				
19	CLR	NC			10.00	42	16	33	35	3	23	29.13	30.16				
22	CLR	NC			10.00	34	19	29	54	0	00	29.10	30.13				
<b>SUNRISE: 0740</b>						<b>JAN 27</b>						<b>SUNSET: 1758</b>					
01	CLR	NC			10.00	31	19	27	61	5	21	29.10	30.11				
04	CLR	NC			10.00	27	19	24	72	0	00	29.10	30.11				
07	CLR	NC			10.00	28	20	25	72	3	VR	29.07	30.08				
10	CLR	NC			10.00	41	22	34	47	6	VR	29.07	30.07				
13	CLR	NC			10.00	52	25	41	35	7	26	28.95	29.94				
16	CLR	NC			10.00	54	27	42	35	7	VR	28.90	29.90				
19	OVC	090			10.00	52	28	42	40	10	22	28.92	29.92				
22	OVC	060			10.00	50	32	42	50	7	VR	28.92	29.90				
<b>SUNRISE: 0740</b>						<b>JAN 28</b>						<b>SUNSET: 1759</b>					
01	OVC	034			10.00	47	35	42	63	9	21	28.89	29.86				
04	OVC	025			10.00	36	26	32	67	9	34	28.90	29.89				
07	CLR	NC			10.00	30	18	26	61	5	VR	28.94	29.93				
10	OVC	042			10.00	32	16	27	52	6	VR	28.98	29.98				
13	OVC	046			10.00	32	15	26	49	10	28	28.96	29.96				
16	BKN	055			10.00	31	11	25	43	10	28	28.98	29.99				
19	BKN	070			10.00	27	8	22	44	13	28	29.05	30.08				
22	BKN	045			10.00	19	2	15	47	11	32	29.19	30.22				
<b>SUNRISE: 0739</b>						<b>JAN 29</b>						<b>SUNSET: 1800</b>					
01	BKN	038			10.00	16	2	13	54	3	VR	29.27	30.32				
04	CLR	NC			10.00	15	3	12	59	0	00	29.25	30.29				
07	CLR	NC			10.00	13	5	11	70	0	00	29.28	30.34				
10	CLR	NC			10.00	19	5	16	54	6	VR	29.34	30.40				
13	CLR	NC			10.00	28	8	22	43	6	VR	29.27	30.32				
16	FEW	060			10.00	34	7	26	32	9	20	29.17	30.22				
19	OVC	048			10.00	32	8	25	36	5	VR	29.15	30.19				
22	OVC	048			10.00	32	8	25	36	3	VR	29.17	30.20				
<b>SUNRISE: 0738</b>						<b>JAN 30</b>						<b>SUNSET: 1801</b>					
01	CLR	NC			10.00	28	10	23	47	0	00	29.19	30.23				
04	BKN	047			10.00	26	12	22	55	0	00	29.14	30.17				
07	BKN	065			10.00	26	13	22	58	3	23	29.13	30.16				
10	CLR	NC			10.00	34	13	27	42	7	VR	29.14	30.16				
13	FEW	060			10.00	44	15	34	31	13	27	29.10	30.10				
16	CLR	NC			10.00	45	9	33	23	8	26	29.04	30.05				
19	CLR	NC			10.00	37	11	29	34	6	VR	29.10	30.13				
22	CLR	NC			10.00	28	7	22	41	3	VR	29.19	30.22				

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)								
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL					
															Observation Time (LST)	Eff Cld Amt Oktas			
<b>SUNRISE: 0737</b>						<b>JAN 31</b>						<b>SUNSET: 1802</b>							
01	CLR	NC			10.00							21	6	17	52	5	06	29.26	30.28
04	CLR	NC			10.00							18	6	15	59	0	00	29.29	30.32
07	CLR	NC			10.00							14	4	12	64	6	04	29.29	30.33
10	CLR	NC			10.00							20	6	16	54	7	05	29.31	30.35
13	CLR	NC			10.00							29	7	23	39	5	VR	29.26	30.30
16	CLR	NC			10.00							33	6	25	32	0	00	29.14	30.17
19	OVC	110			10.00							33	7	25	33	0	00	29.14	30.19
22	OVC	055			10.00							32	10	25	40	5	21	29.12	30.15

## 3-HOURLY OBSERVATION NOTES

Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, W = Vertical Visibility = 8/8

Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

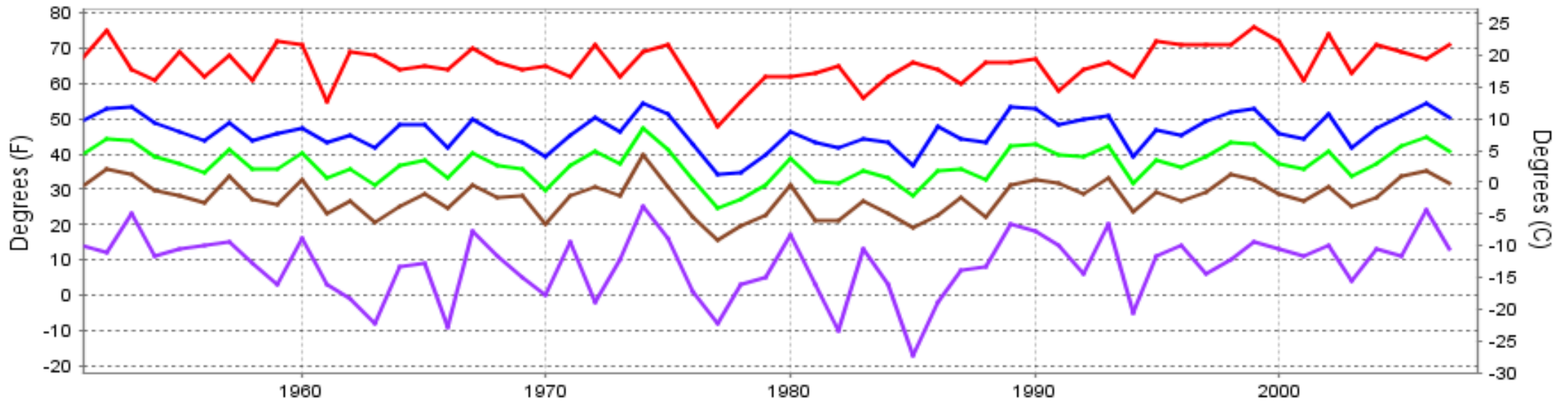
& = Original observation contained additional weather elements.

See page 3 for additional notes.

## SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			39	30	35	71	29.22	30.22	9.45	3	2	25
02			38	29	35	72	29.22	30.22	9.29	2	3	24
03			37	29	34	74	29.22	30.22	9.16	3	3	25
04			37	29	34	74	29.22	30.22	9.14	2	2	22
05			36	29	33	75	29.22	30.22	9.36	2	1	23
06			36	28	33	76	29.23	30.23	8.98	3	1	21
07			35	28	33	77	29.23	30.24	8.88	3	1	23
08			35	28	33	76	29.24	30.25	8.81	3	1	20
09			37	29	34	74	29.25	30.26	8.66	3	2	25
10			39	29	35	68	29.26	30.27	9.27	4	1	24
11			42	30	37	63	29.26	30.27	9.13	6	3	26
12			44	30	38	59	29.24	30.25	9.21	6	4	26
13			46	29	39	55	29.21	30.21	9.19	6	4	26
14			46	29	40	55	29.19	30.19	9.08	6	4	26
15			47	29	40	52	29.18	30.18	9.19	7	5	26
16			47	28	40	50	29.18	30.18	9.61	6	4	26
17			47	28	39	52	29.19	30.19	9.50	6	3	26
18			45	28	39	55	29.19	30.20	9.94	4	4	25
19			44	29	38	58	29.20	30.21	9.77	3	4	25
20			42	29	37	62	29.21	30.22	9.81	3	4	26
21			41	29	37	65	29.22	30.23	9.87	3	4	26
22			40	29	36	66	29.22	30.23	9.74	3	2	24
23			39	29	35	68	29.22	30.23	9.58	3	4	26
24			39	29	35	69	29.22	30.23	9.42	3	3	25

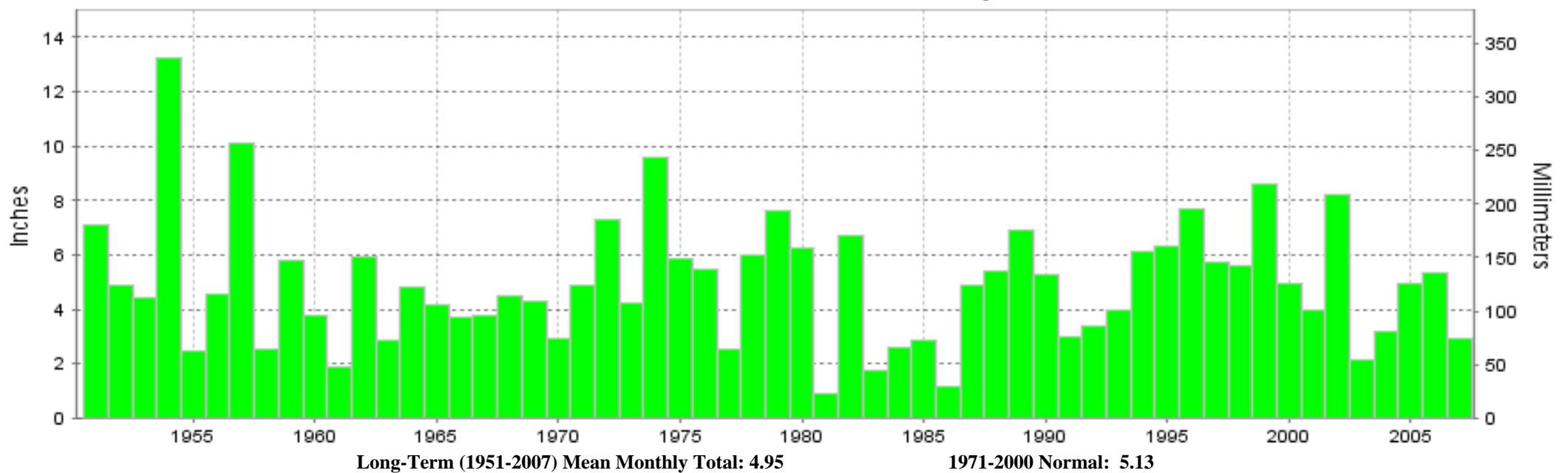
## OAK RIDGE, TN JANUARY Temperatures



— Extreme Max — Mean Max — Mean — Mean Min — Extreme Min

Long-Term (1951-2007) Mean: 37.2  
1971-2000 Normal: 36.6

## OAK RIDGE, TN JANUARY Precipitation



Long-Term (1951-2007) Mean Monthly Total: 4.95

1971-2000 Normal: 5.13



**JANUARY 2007  
OAK RIDGE, TN**

**LOCAL CLIMATOLOGICAL DATA  
NOAA, National Climatic Data Center**

*I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA-National Weather Service / Department Of Transportation-Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.*

**DIRECTOR**

NCDC now offers an annual online subscription for the **Edited Local Climatological Data Publication**. When you purchase this subscription service, you will have **immediate online access** to all previous publications back to July 1996 and all publications thereafter until the expiration of the subscription. Your subscription is valid for one year after purchase. **The total cost for online delivery (including back issues) is significantly less than the cost for offline delivery.** To order this and other subscriptions online with your credit card, go to: **www.ncdc.noaa.gov** and choose subscriptions.

We welcome your questions or comments, please contact us at:

Toll Free Number (866) 742-3322 (voice)

Fax Number : (304) 726-4409

TDD : (828) 271-4010

or Email : [ncdc.info@noaa.gov](mailto:ncdc.info@noaa.gov)

Local Climatological Data is available at [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)

United States  
Department of Commerce

National Oceanic and  
Atmospheric Administration

National Environmental Satellite  
and Atmospheric Administration

For address correction, please return a photocopy of this page to Subscription Services indicating changes

NCDC Subscription Services Center  
310 State Route 956 Building 300  
Rocket Center, WV 26726

OFFICIAL BUSINESS, PENALTY FOR PRIVATE USE \$300

FIRST CLASS  
POSTAGE AND FEES PAID  
NOAA  
PERMIT G-19